

EXAMPLES OF UNDULATING CONDUITS

Figure 1.

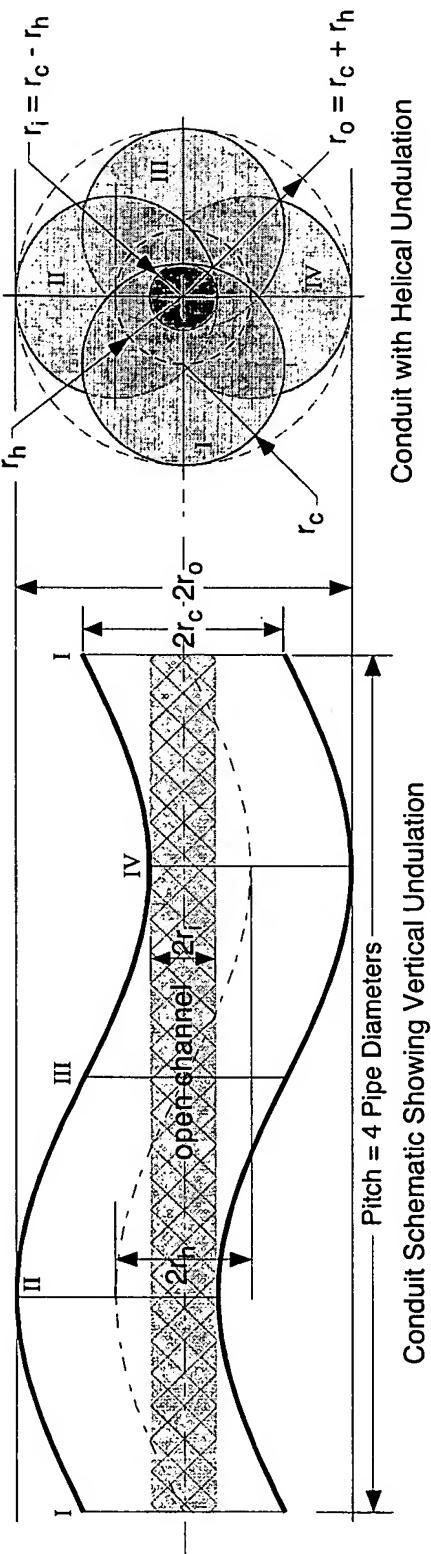


Figure 2.

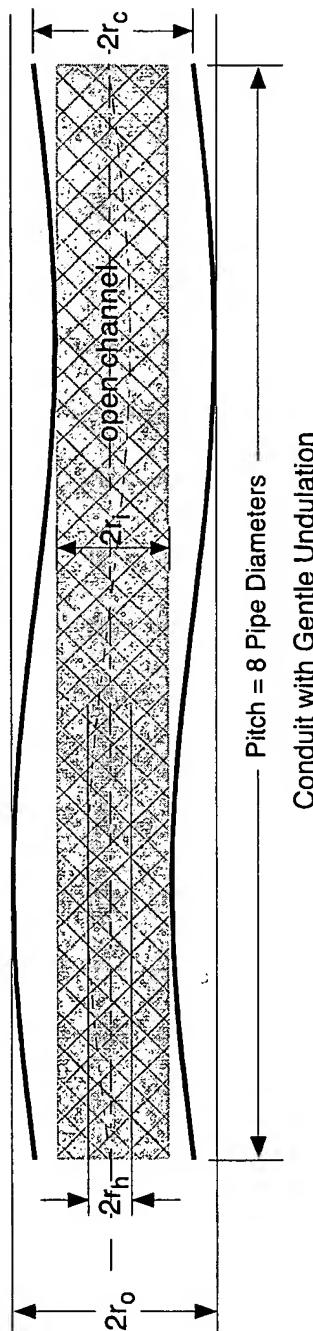
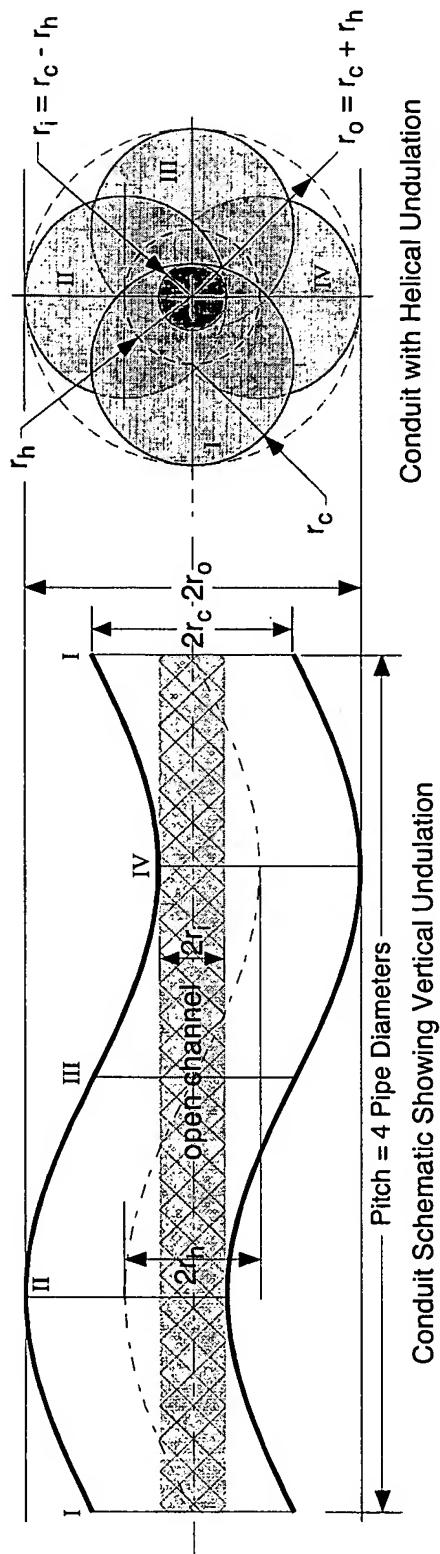


Figure 3.

r_c = radius of conduit centerline
 r_h = radius of helical path of conduit centerline
 $r_o = r_c + r_h$ = outer radius of conduit helix
 $r_i = r_c - r_h$ = radius of open interior channel ($r_c \geq r_h$)
 $= r_h - r_c$ = inner radius of conduit helix ($r_c < r_h$)

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Fig. 4a



Fig. 4b

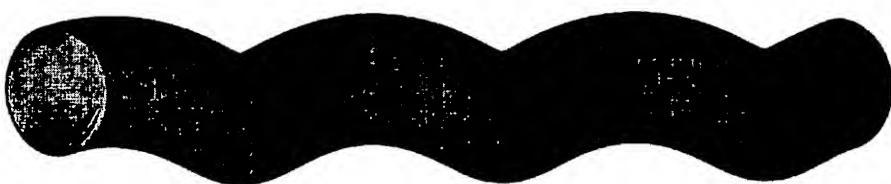
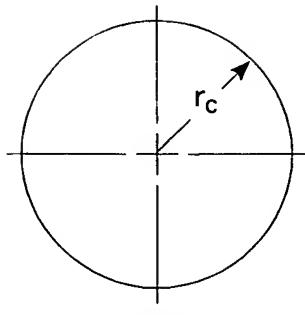


Fig. 4c

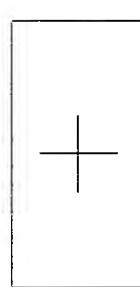
Figure 4. End and Oblique Views of a Short Section of Helical Undulating Conduit Having a Circular Cross-Section and Open Center Channel

Fig. 5a



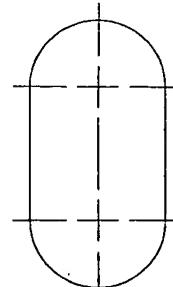
Circle

Fig. 5b



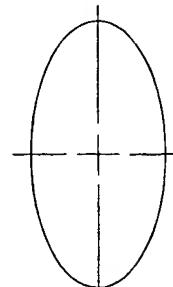
Polygon
(4 sides)

Fig. 5c



Composite
(round-end polygon)

Fig. 5d



Ellipse

Figure 5. Some Cross-Sectional Shapes for Undulating Conduits

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Fig. 6b
Magnified end view of
spiral conduit showing
open center channel

Conduit
Transition Connectors
Not Shown

Reversed
Twist

Fig. 6c
Trimetric View of
Undulating Conduit
'Flow Revitalizer' Insert
Between Round
Pipe Sections



Fig. 6a
Side View of
Spiral-Twisted
Undulating Conduit
with Oval Cross-Section

**Figure 6. Examples
of Spiral-Twisted
Undulating Conduit**

